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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/857,491	06/06/2001	Toyokazu Sugai	1163-0340P	5202
	2292 7	2292 7590 12/12/2006		EXAMINER	
	BIRCH STEWART KOLASCH & BIRCH			CHOWDHURY, SUMAIYA A	
	PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
				2623	

DATE MAILED: 12/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/857,491	SUGAI, TOYOKAZU				
Office Action Summary	Examiner	Art Unit				
	Sumaiya A. Chowdhury	2623				
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a; cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 C	Responsive to communication(s) filed on <u>12 October 2006</u> .					
· <u>=</u>	-					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) <u>1,8-10 and 14-22</u> is/are pending in the 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,8-10,14-22</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to by the E drawing(s) be held in abeyance. Sec tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been receive u (PCT Rule 17.2(a)).	on Noed in this National Stage				
Attachment(s) . 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/14/06 has been entered.

Response to Arguments

- 2. Applicant's arguments with respect to claims 1, 8-10, and 14-22 have been considered but are most in view of the new ground(s) of rejection.
- (a) Applicant argues in regard to claim 1 that "Kaneko uses achievement...amount of data in a table", on page 9, 3rd paragraph, of the Remarks filed 9/14/06.

Bandwidth is the range of frequencies at which data is transmitted. The higher the bandwidth, the higher the range of frequencies, the higher the data rate. When the amount of data which is transmitted within the predetermined bandwidth is increased exceeding the predetermined bandwidth, the sending out rate and frequency band is surpassed. Kaneko teaches when the amount of data of each table exceeds the preselected threshold value, the tables are split into sub-tables – col. 17, lines 10-28.

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(b) Applicant argues in regard to claim 1 that "Kaneko teaches comparing the amount of data to a threshold amount, rather than predetermined bit rate to determine whether to divide the data into sub-groups", on page 10, 1st paragraph, of the Remarks filed 9/14/06.

Bandwidth, frequency, and bit rate, are all interrelated. By comparing the amount to a threshold amount, the data is as a result is being compared to the bit rate. Based on the bandwidth, the bit rate is predetermined. Therefore, since the system's bit rate is predetermined, so is its threshold amount.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 8-10, and 14-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Kaneko (6505347).

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As for claim 1, Kaneko teaches a data sending-out device, in which associated data associated with and multiplexed with main data is produced and sent out, comprising:

producing means for producing the associated data of a prescribed type (25 - Fig. 4, col. 12, lines 33-52); and

sending-out means for transforming the associated data of the prescribed type produced by the producing means into a bit stream and sending out the associated data transformed into the bit stream (TS packetizing circuit - Fig. 4, col. 12, lines 33-53. "a desired data rate" within "a desired transmission bandwidth" would be equal to or lower than a prescribed upper limit bit rate);

wherein the main data is a broadcast program (col. 1, lines 16-19), one or more tables based on electronic program guide information of the broadcast program are produced as the associated data by the producing means (25 – Fig. 4, col. 12, lines 33-52, col. 13, lines 12-43)

when the amount of information in the associated data exceeds amount necessary to achieve a sending-out rate equal to or lower than the prescribed upper limit bit rate and a sending-out frequency for at least one type of table equal to or higher than a specific sending-out frequency of the at least one type of table, the amount of information in at least one of the tables is decreased so that the amount of information in associated data is less than or equal to the necessary amount (Bandwidth is the range of frequencies at which data is transmitted. The higher the bandwidth, the higher the data rate. When the amount of data which is transmitted within the predetermined

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bandwidth is increased exceeding the predetermined bandwidth, the sending out rate and frequency band is surpassed. Kaneko teaches when the amount of data of each table exceeds the preselected threshold value, the tables are split into sub-tables – col. 17, lines 10-28), and

one or more tables are transformed into the bit stream by the sending-out means, and the one ore more tables transformed into the bit stream are sent out according to the sending-out rate equal to or lower than the prescribed upper limit bit rate and the sending-out frequency for the at least one type of table by the sending-out means (col. 17, lines 10-27; If a sub-table, which is a type of table, contains too much data, it is divided into sub-groups. Since bandwidth corresponds to data rate and band of frequencies, after dividing the data into sub-groups, the data is then transmitted at the corresponding data rate, not exceeding the maximum data rate, and at the corresponding frequency. Dividing into sub-groups is adjusting the amount of information in the type of table).

As for claim 8, Kaneko teaches wherein the multiple types of tables are produced by the producing means by adjusting the amounts of information in the types of tables according to a plurality of priorities of the types of tables to allow the tables to be sent out at the sending-out rate equal to or lower than the prescribed upper limit bit rate and allow the tables to be sent out at sending-out frequencies equal to or higher than specific sending-out frequencies of the types of tables (See Col. 14 lines 18-67, Col. 15

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lines 1-47 The version generator determines, based on priority, whether or not to produce a new version of a table. Producing a different version of a table is adjusting the amount of information in the table. This process is directly related to the determination of transmission cycles).

As for claim 9, Kaneko teaches wherein multiple types of tables are produced by the producing means by adjusting the amounts of information in the types of tables according to a plurality of sending-out frequency reduction rates of the types of tables to allow the tables to be sent out at the sending-out rate equal to or lower than the prescribed upper limit bit rate and allow the tables to be sent out at sending-out frequencies equal to or higher than specific sending-out frequencies of the types of tables (See Col. 15 lines 20-67, Col. 16 lines 1-67, Col. 17 lines 1-27 If a sub-table, which is a type of table, contains too much data, it is divided into sub-groups. Dividing into sub-groups is adjusting the amount of information in the type of table).

As for claim 10, Kaneko teaches wherein the types of tables are produced by the producing means by adjusting the amounts of information in the types of tables according to a plurality of sending-out frequency reduction rates of the types of tables to allow the tables to be sent out at the sending-out rate equal to or lower than the prescribed upper limit bit rate and allow the tables to be sent out at the sending-out frequencies equal to or higher than the specific sending-out frequencies of the types of

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tables (See Col. 15 lines 20-67, Col. 16 lines 1-67, Col. 17 lines 1-27 If a sub-table, which is a type of table, contains too much data, it is divided into sub-groups. Dividing into sub-groups is adjusting the amount of information in the type of table).

As for claim 14, Kaneko teaches wherein the one or more tables are again produced in cases where it is impossible to send out the one or more tables at the sending-out rate equal to or lower than the prescribed upper limit bit rate or it is impossible to send out the at least one type of table at the sending-out frequency equal to or higher than the specific sending-out frequency (See Col. 14 lines 32-46 Tables are continuously produced as information is updated, so tables are "again produced" in all cases).

As for claims 15 and 16, Kaneko teaches wherein the amount of information in at least one type of table is calculated prior to the production of the at least one type of the at least one type of table, and the at least one type of table is produced by the producing means by adjusting the amount of information in the at least one type of table to allow the one or more tables to be sent out at the sending-out rate equal to or lower than the prescribed upper limit bit rate and to allow the at least one type of table to be sent out at the sending-out frequency equal to or higher than the specific sending-out frequency (See Col. 17 lines 10-27 If it is calculated that a sub-table, which is a type of table, contains too much data, it is divided into sub-groups. Dividing into sub-groups

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is adjusting the amount of information in the type of table).

As for claim 17, Kaneko teaches wherein the amount of information in at least one type of table is calculated prior to the production of the type of table, and the at least one type of table is produced by the producing means by adjusting the amount of information in the at least one type of table to allow the tables to be sent out at the sending-out rate equal to or lower than the prescribed upper limit bit rate and to allow the at least one type of table to be sent out at the sending-out frequency equal to or higher than the specific sending-out frequency (See Col. 17 lines 10-27 If a sub-table, which is a type of table, contains too much data, it is divided into sub-groups. Dividing into subgroups is adjusting the amount of information in the type of table).

As for claims 18-20, Kaneko teaches wherein, prior to the production of at least one type of table, the amount of information for each type of table information for each type of table information, for which the amount of the electronic program guide information is not predetermined, is detected and added to a summed value in the calculation of the amount of information, the amount of information for each type of table information, for which the amount of the electronic program guide information is predetermined, is read out from a record and is added to the summed value in the calculation of the amount of information, and the amounts of information in the at least one types of table is calculated (See Col. 17 lines 10-15. In both cases, (whether the

amount of electronic program guide information is predetermined or not) the amount of information in each type of table is added to a summed value prior to the production of each type of table. This is equivalent to knowing a cumulative amount of information in a table when the tables are produced. The amount of information in one of Kaneko's table is a cumulative amount of information).

As for claim 21, Kaneko teaches the data sending-out device wherein:

The producing means produces multiple types of tables – col. 12, lines 32-52, and

When the amount of information in the associated data exceeds the necessary amount to achieve the sending-out rate and the sending out frequency, the amount of information in the at least one of the tables is decreased according to at least one of:

Relative priorities (first version number) of the types of tables (When a given switching time is reached, the data elements of each tables to which a first version number is assigned are first transmitted. Clearly, based on priority, data is transmitted in a sequenced order – col. 17, lines 27-35).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kaneko in view of Ong (5815662).

As for claim 22, Kaneko fails to teach:

Wherein the amount of information in the at least one of the tables is decreased by deleting information of relative low importance.

In an analogous art, Ong teaches data which is of low priority is removed – col. 4, line 62 – col. 5, line 6.

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Kaneko's invention to include the above mentioned limitation, as taught by Ong, for the well known desirable advantage of conserving memory.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sumaiya A. Chowdhury whose telephone number is (571) 272-8567. The examiner can normally be reached on Mon-Fri, 9-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Grant can be reached on (571) 272-7292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Business Center (EBC) at 866-217-9197 (toll-free).

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